

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P579668

Luminaire Tested: **SMD12R209SWHE-EM - 5000K**

Issue Date: 11/23/2021

Test Information

Test Method: LM-79-08
Report Number: P579668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2110240B001)
Test Lab:
Issue Date: 11/23/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD12R209SWHE-EM - 5000K
Description: SMD SELECTABLE CCT 5000K
Light Source: SELECTABLE CCT LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

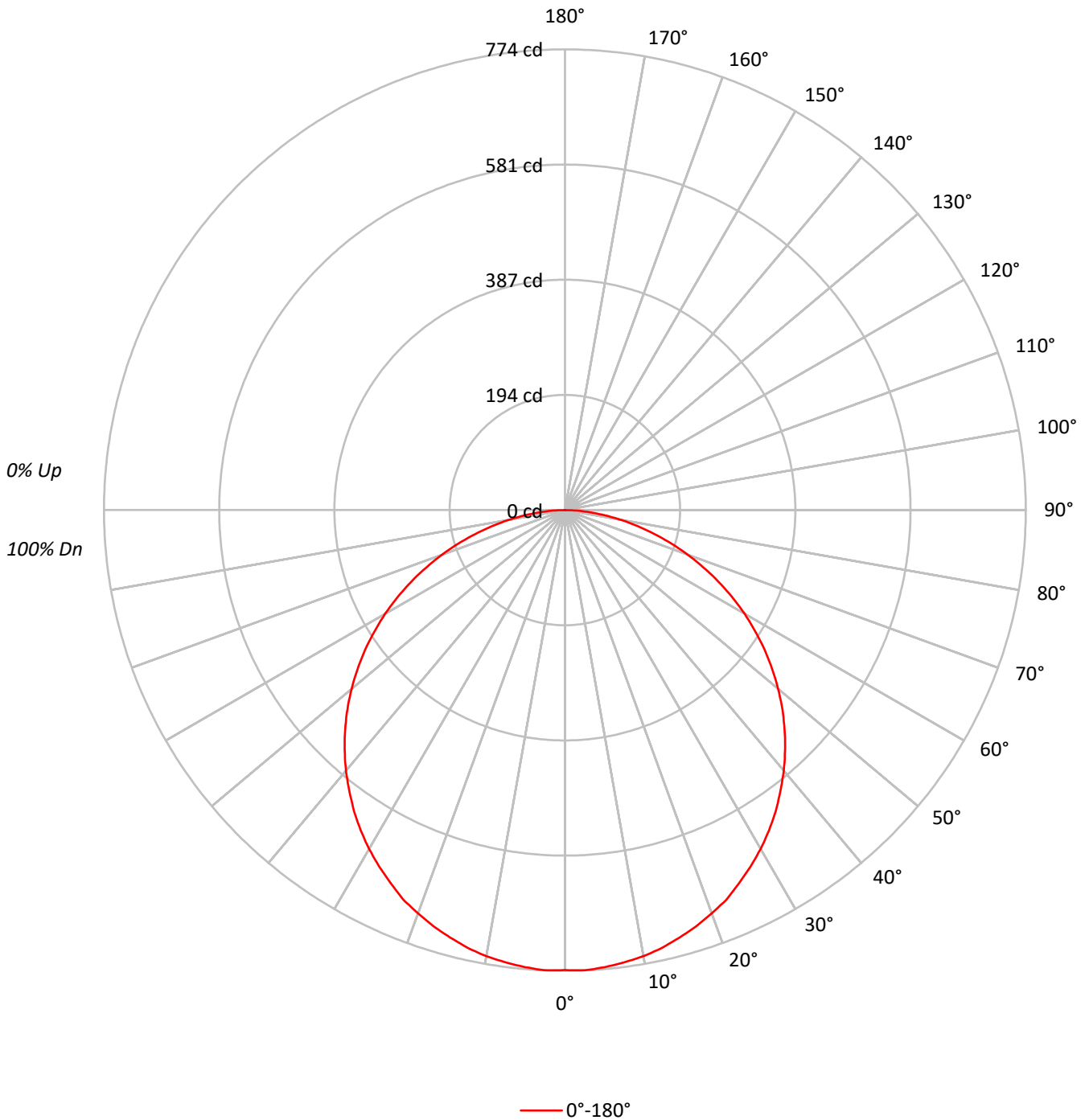
Lumens per Lamp: N/A
Luminaire Lumens: 2251.6 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 29.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P579668
CATALOG NUMBER: SMD12R209SWHE-EM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P579668

CATALOG NUMBER: SMD12R209SWHE-EM - 5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10591
5°	10603
10°	10590
15°	10546
20°	10515
25°	10458
30°	10403
35°	10326
40°	10230
45°	10113
50°	9970
55°	9789
60°	9550
65°	9229
70°	8808
75°	8266
80°	7593
85°	6620



TEST NUMBER: P579668
 CATALOG NUMBER: SMD12R209SWHE-EM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.3
10°-20°	210.0	9.3
20°-30°	319.0	14.2
30°-40°	386.0	17.1
40°-50°	402.4	17.9
50°-60°	365.9	16.3
60°-70°	281.4	12.5
70°-80°	165.4	7.3
80°-90°	48.2	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	602.2	26.7
0°-40°	988.2	43.9
0°-60°	1756.5	78.0
0°-90°	2251.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2251.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	773	
5°	771	73
15°	743	210
25°	692	319
35°	617	386
45°	522	402
55°	410	366
65°	285	281
75°	156	165
85°	42	48
90°	0	



TEST NUMBER: P579668
CATALOG NUMBER: SMD12R209SWHE-EM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	772.8
2.5°	773.9
5°	770.7
7.5°	766.1
10°	761.0
12.5°	753.4
15°	743.3
17.5°	733.2
20°	721.0
22.5°	708.5
25°	691.6
27.5°	675.1
30°	657.4
32.5°	638.0
35°	617.2
37.5°	594.6
40°	571.8
42.5°	547.4
45°	521.8
47.5°	495.4
50°	467.6
52.5°	439.1
55°	409.7
57.5°	379.1
60°	348.4
62.5°	316.4
65°	284.6
67.5°	252.1
70°	219.8
72.5°	187.8
75°	156.1
77.5°	125.4
80°	96.2
82.5°	68.3
85°	42.1
87.5°	18.8
90°	0.0

(END OF REPORT)